

SEQ ID 2 1 ATG TTG CAG ATG GCT GGG CAG TGC TCC GAA AAT GAA TAT TTT GAC AGT TTG TTG CAT GCT  
 SEQ ID 1 1 M L Q M A G Q C S Q N E Y F D S L L H A  
 61 TGC ATA CCT TGT CAA CTT CGA TGT TCT CCT CCT ATT ACT CCT CCT CTA ACA TGT CAG CGT TAT  
 21 C I P C Q L R C S N T P P L T C Q R Y  
 121 TGT ATT GCA AGT GTG ACC AAT TCA GTG AAA GGA AGG AAT GCG ATT CTC TGG ACC TGT TTG  
 41 C N A S V T N S V K G T N A I L W T C L  
 181 GGA CTC AGC TTA ATA ATT TCT TTG GCA GTT TTC GTG CTA ATG TTT TTG CTA AGG AGG AGA  
 61 G L S L I S L A V F V L M F L L R K I  
 241 AGC TCT GAA CCA TTA AAG GAC GAG TTT AAA AAC ACA GGA TCA CGT CTC CTG GGC ATG GCT  
 81 S S E P L K D E F K N T G S G L L G M A  
 301 AAC ATT GAC CTG GAA AAG AGC AGG ACT GGT GAT GAA ATT ATT CTT CGG AGA GCC CTC GAG  
 101 N I D L E K S R T G D E I I L P R G L E  
 361 TAC ACG GTG GAA GAA TGC ACC TGT GAA GAC TGC ATC AAG AGC AAA CGG AAG GTC GAC TCT  
 121 Y T V E E C T C E D C I K S K P K V D S  
 421 GAC CAT TGC TTT CCA CTC CGA GCT GAG GAA GCA ACC ATT CTT GTC ACC AGC AGG AAA  
 141 D H C F P L P A M E E G A T I L V T T K  
 481 ACG AAT GAC TAT TGC CCA GCT GCT TTG AGT GCT ACG GAG ATA GAG AAA TCA  
 161 T N D Y C K S L P A A L S A T E I E K S  
 541 ATT TCT GCT AGG TAA  
 181 I S A R \*

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FIG. 2A	FIG. 2B
------------	------------

FIG. 1

FIG. 2

1 ATG GAG ACA GAC ACA CTC CTG TTA TGG GTG CTG CTG CTC TGG GTP CCA GGT TCC ACT GGT  
 SEQID 4 1 M E T D T L L W V L L W V P G S T G  
 SEQID 3 61 GAC GTC ACG ATG TGG CAG ATG GCT GGG CAG TGC TCC CAA AAT GAA TAT TTT GAC AGT TTG  
 1 M L Q M A G Q C S Q N E Y F D S L  
 21 D V T M L Q M A G Q C S Q N E Y F D S L  
 121 TTG CAT CCT TGC ATA CCT TGT CAA CCT CGA TGT TCT AAT ACT CCT CCT CTA ACA AGA TGT  
 181 L H A C I P C Q L R C S S N T P P L T C  
 411 L H A C I P C Q L R C S S N T P P L T C  
 181 CAG CGT TAT TGT ATT GCA AGT GTG ACC ATT TCA GIG AAA GGA GTC GAC AAA ACT CAC ACA  
 381 Q R Y C N A S V T N S V K G V D K T H T  
 611 Q R Y C N A S V T N S V K G V D K T H T  
 241 TGC OCA CGG TGC OCA GCA CCT GAA CTC CTG CGG GGA CGG TGA GTC TTC CTC TTC CCC CCA  
 811 C P P C P A P E L L G G P S V F L F P P  
 301 AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC  
 1011 K P K D T L M I S R T P E V T C V V V D  
 361 GTG AGC CAC GAA GAC CCT GAG GTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT  
 1211 V S H E D P E V K F N W Y V D G V E V H  
 421 ATT GCC AAG ACA AAG CGG CGG GAG CAG TAC AAC AGC ACG TAC AGC AGC AGC AGC GTC AGC GTC  
 1411 N A K T K P R E E Q Y N S T Y R V V S V  
 481 CTC ACC GTC CTG CAC CAG GAC TGG CTG ATT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC

FIG. 2A

161<sup>▶</sup> L T V L H Q D W L N G K E Y K C K V S N  
 541 AAA GCC CTC CCA GCC CCC ATC GAG AAA ACC ATC TCC AAA GAA GGG CAG CCC CGA GAA  
 181<sup>▶</sup> K A L P A P I E K T I S K A K G Q P R E  
 601 CCA CGG GTG TAC ACC CTC CCC COA TCC CGG GAT GAG CTG ACC AGG AAC CAG GTC AGC CTG  
 201<sup>▶</sup> P Q V Y T L P P S R D E L T K N Q V S L  
 661 ACC TGC CTG GTC AAA GGC TTC TAT CCC AGC GAC ATC GOC GTG GAG TGG GAG AGC AAT GGG  
 221<sup>▶</sup> T C L V K G F Y P S D I A V E W E S N G  
 721 CAG CGG GAG AAC AAC TAC AAG ACC ACG CCTT CCC GTC TTG GAC TCC GAC GGC TCC TTC TTC  
 241<sup>▶</sup> Q P E N N Y K T T P P V L D S D G S F F  
 781 CTC TAC AGC AAG CTC ACC GTG GAC AGC AGG TCC CAG CAG GGG AAC GTC TTC TCA TGC  
 261<sup>▶</sup> L Y S K L T V D K S R W Q Q G N V F S C  
 841 TCC GTG ATG CAT GAG GCT CTG CTC AAC CAC TAC AGC CAG AAG AGC CTC TCC CAG TCT CCC  
 281<sup>▶</sup> S V M H E A L H N H Y T Q K S L S L S P  
 901 GGG AAA TGA  
 301<sup>▶</sup> G K \*

FIG. 2B

BsaAI              BbsI

1 AAGACTCAAA CTTAGAACT TGAATTAGAT GTGGTATTCA AATCCTTACG TGCGCGAAG  
 61 ACACAGACAG CCCCGTAAG AACCCACGAA GCAGGCAGG TTCATGTTC TCAACATTCT  
 EcoRI

121 AGCTGCTCTT GCTGCATTTG CTCTGGAATT CTTGTAGAGA TATTACTTGT CCTTCCAGGC  
 Scl              BclI

181 TGTCTCTCT GTAGCTCCCT TGTCTCTCTT TTGTGATCAT GTTGCAGATG GCTGGCAGT  
 1 M L Q M A G Q

SspI              SphI              HinclI

241 GCTCCAAAAA TGAATATTTT GACAGTTTGT TGCTGCTTG CATACTTGT CAACCTCGAT  
 8►C S Q N E Y F D S L L H A C I P C Q L R  
 PciI  
 AIIII

301 GTTCTCTAA TACTCCTCTT CTAACATGTC AGCGTTATTG TAATGCAAGT GTGACCAATT  
 28►C S S N T P P L T C Q R Y C N A S V T N  
 BsmFI

361 CAGTGAAGG AACGAATGG ATTCCTGGA CCTGTTTGGG ACTGACCTTA ATAATTTCCTT  
 48►S V K G T N A I L W T C L G L S L I I S  
 421 TGGCAGTTT CGTGTAAATG TTTTGCTAA GGAAGATAAG CTCTGACCA TAAAGGACG  
 68►L A V F V L M F L L R K I S S E P L K D

DraI              AlwI              BsaI

481 AGTTAAAAAA CACAGGATCA GGTCCTCTGG GCATGGCTAA CATTGACCTG GAAAAGAGCA  
 88►E F K N T G S G L L G M A N I D L E K S

XmnI              StuI              Xhol

541 GGACTGGTGA TGAAATTATT CTTCCGAGAG GCCTCGAGTA CACGGTGGAA GAATGCACCT  
 108►R T G D E I I L P R G L E Y T V E E C T

SalI              HinclI

BbsI

601 GTGAAGACTG CATCAAGAGC AAACCGAAGG TCGACTCTGA CCATTGCTTT CCACCTCCAG  
 128►C E D C I K S K P K V D S D H C F P L P  
 661 CTATGGAGGA AGGGCAACC ATTCTGTCA CCACGAAAAC GAATGACTAT TGCAAGAGCC  
 148►A M E E G A T I L V T T K T N D Y C K S

PvuII

721 TGCCAGCTGC TTGAGTGCT ACGGAGATAG AGAAATCAAT TTCTGCTAGG TAATTAACCA  
 168►L P A A L S A T E I E K S I S A R

XbaI              DraI              BglII

781 TTTCGACTCG AGCACTGCCA CTITAAAAAT CTITGTCAAG AATAGATGAT GTGTCAGATC  
 841 TCTTTAGGAT GACTGTATTT TTCAGTTGCC GATACAGCTT TTTGTCTCT AACTGTGGAA

StyI

901 ACTCTTTATG TTAGATATAT TTCTCTAGGT TACTGTGGG AGCTTAATGG TAGAAACTTC  
 961 CTTGGTITCA TGATTAAGT CTTTTTTTTT CCTGA

STRUCTURE COMPARISON BETWEEN TNF-R55 AND BAFF-R

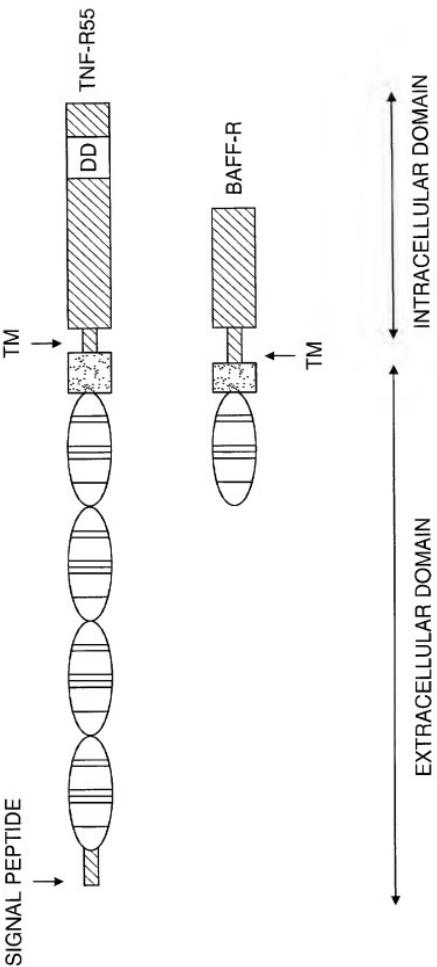


FIG. 4

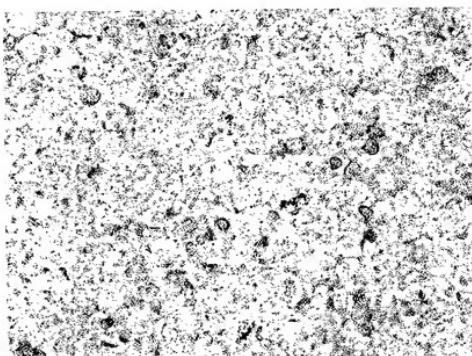


FIG. 5A

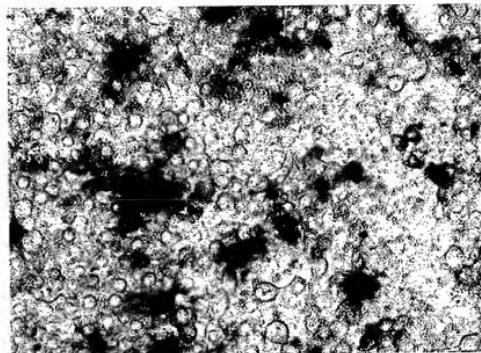
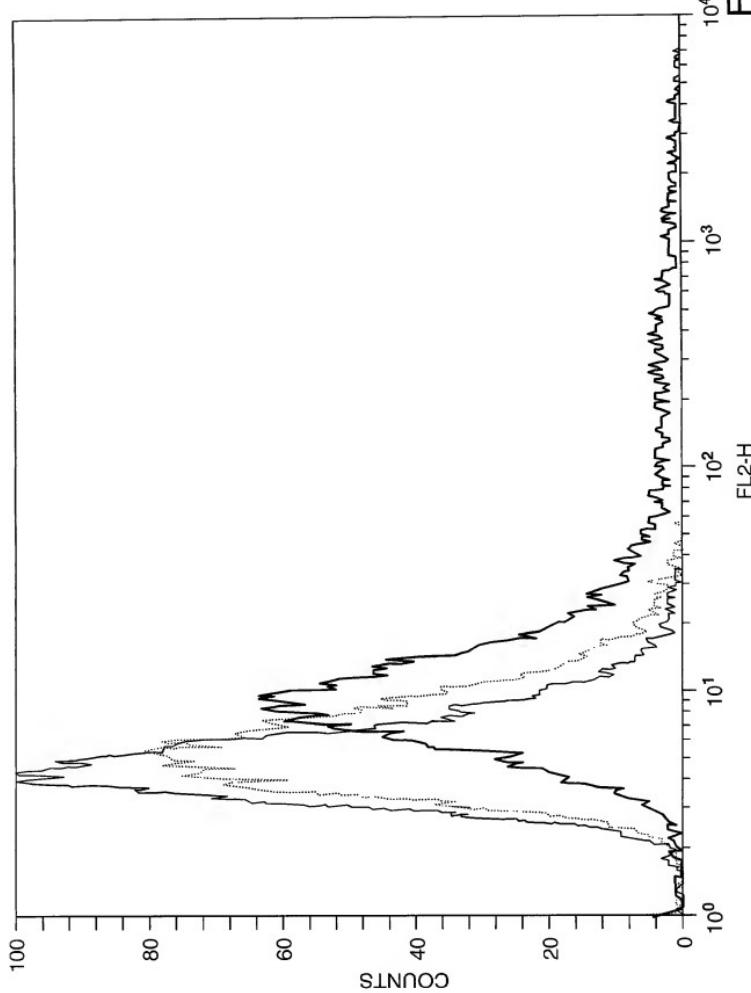
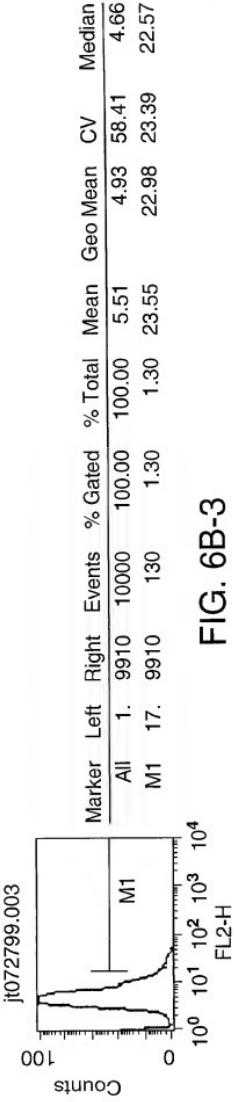
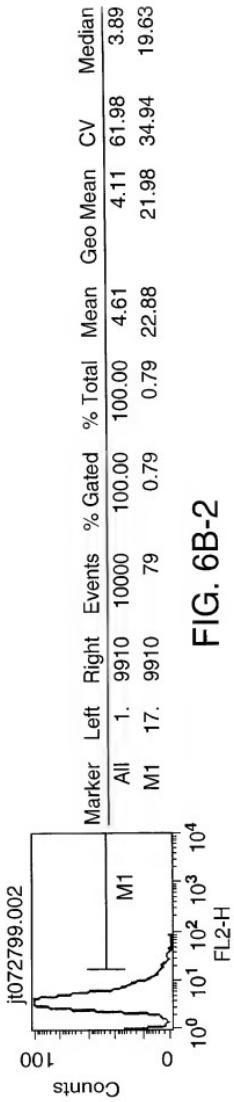
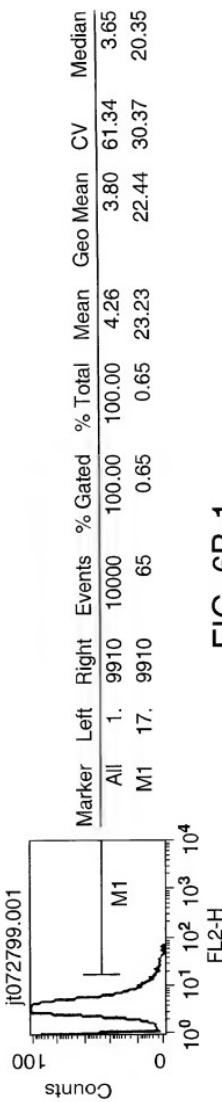


FIG. 5B

FIG. 6A





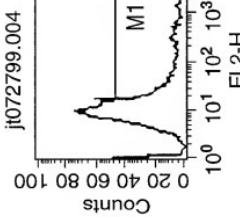


FIG. 6B-4

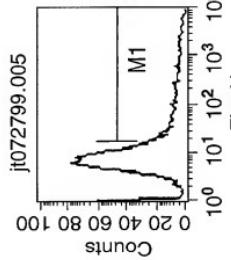


FIG. 6B-5

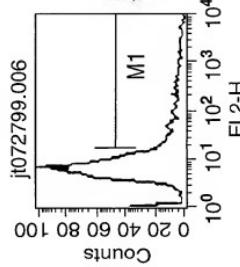


FIG. 6B-6

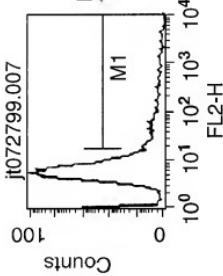


FIG. 6B-7

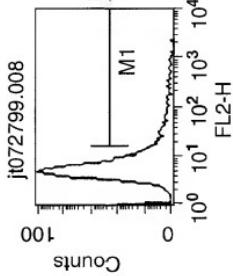


FIG. 6B-8

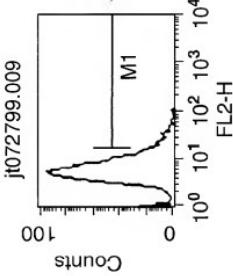




FIG. 7

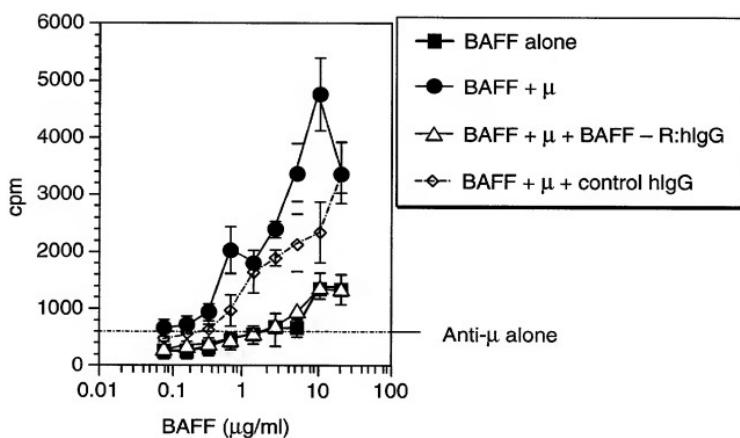


FIG. 8

FIG. 9

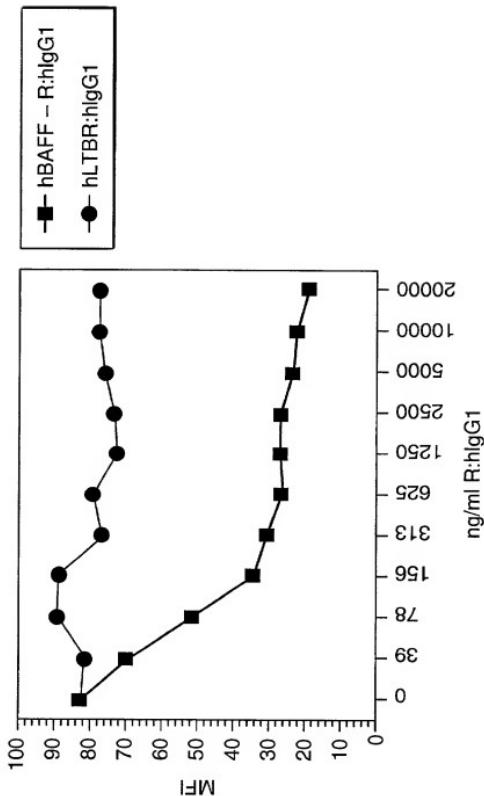


FIG. 10A

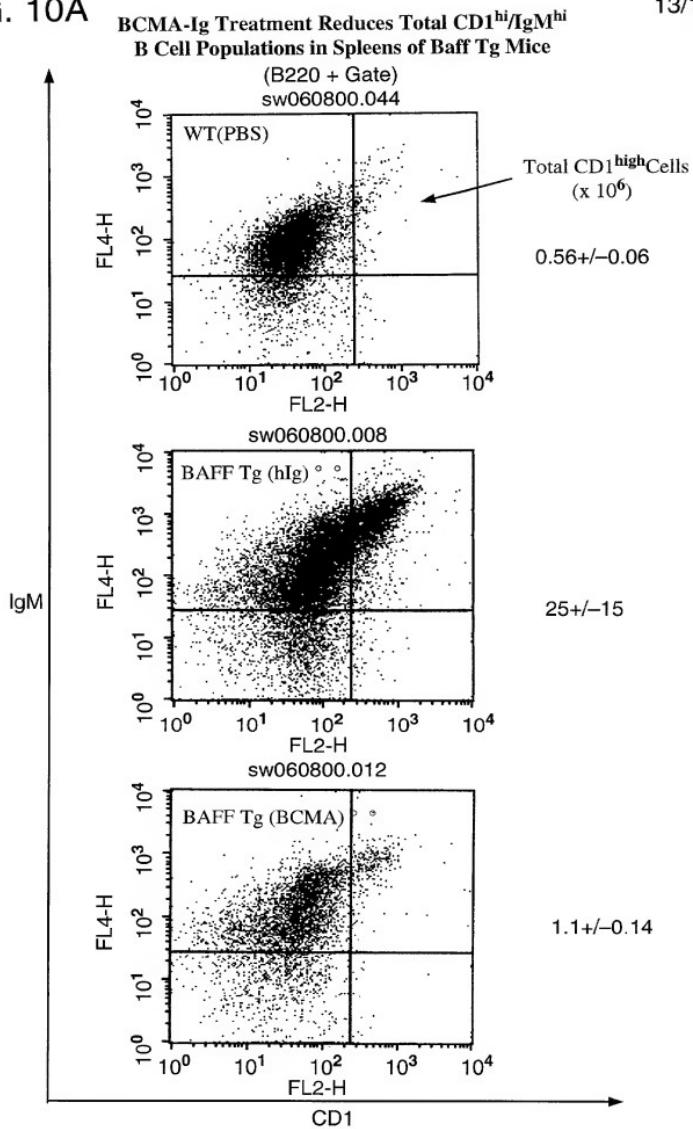


FIG. 10B

**BCMA-Ig Treatment Reduces Total Mature B  
and T2 B Cell Populations in Spleens of Baff Tg Mice**

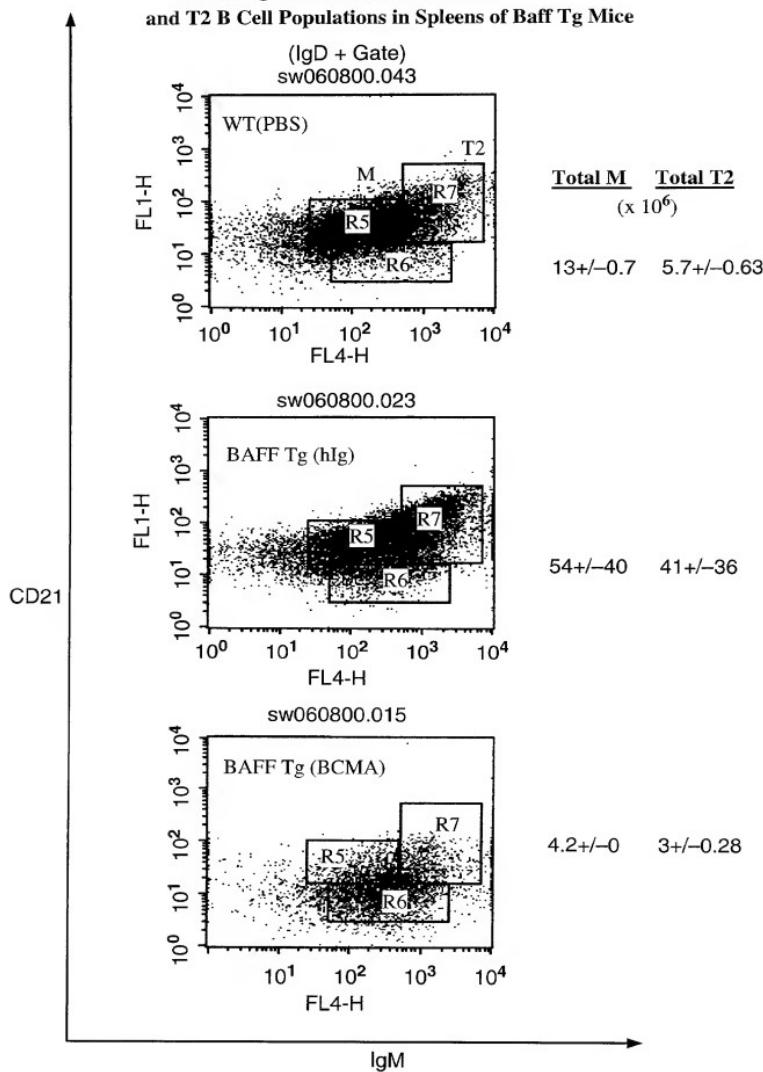
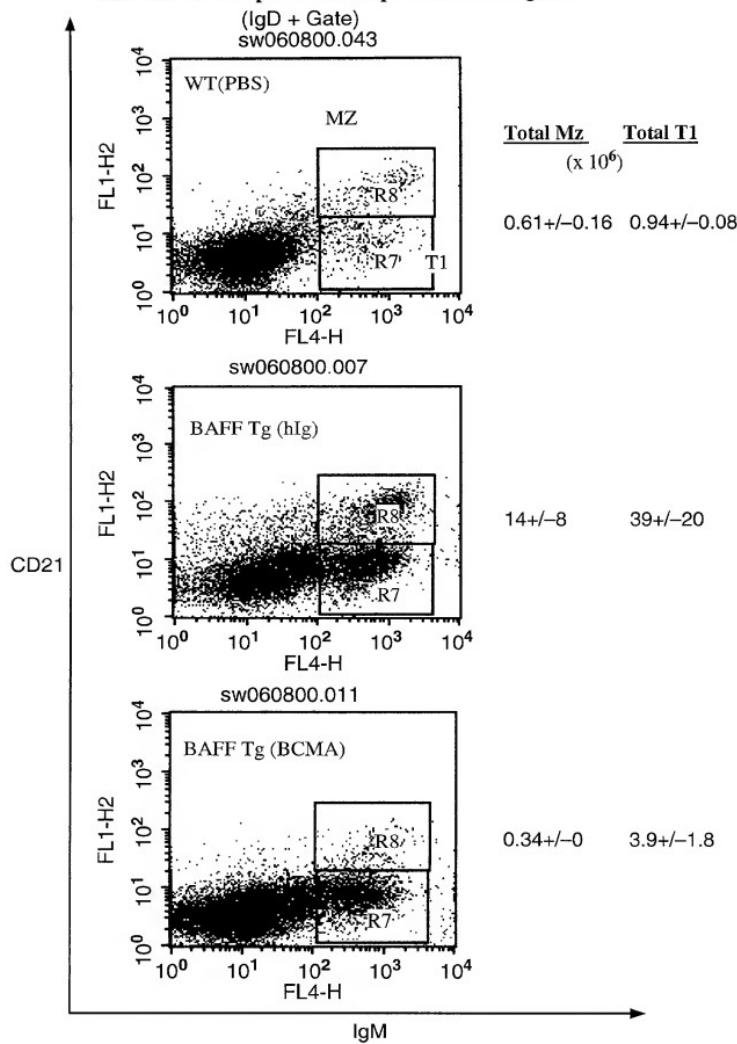


FIG. 10C

**BCMA-Ig Treatment Reduces Total Marginal Zone  
and T1 B Cell Populations in Spleens of Baff Tg Mice**



hBCMA-hlg Treatment Reduces Spleen Weight in BAFF Tg Mice

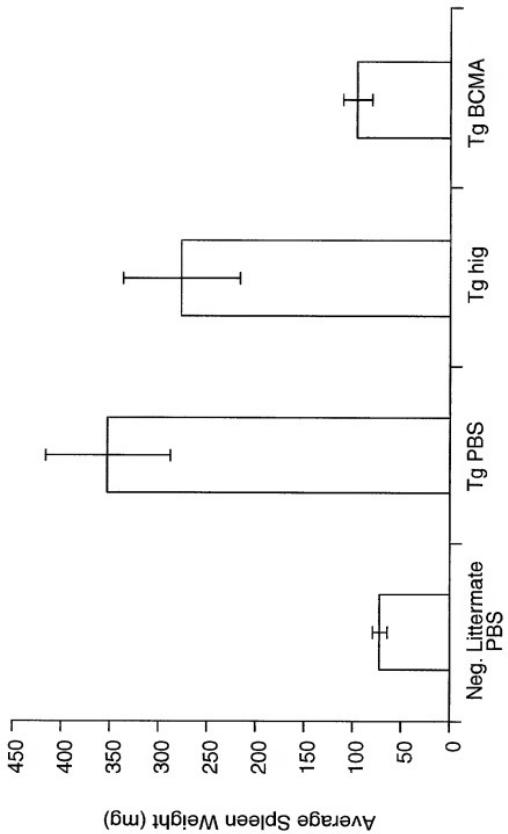


FIG. 11

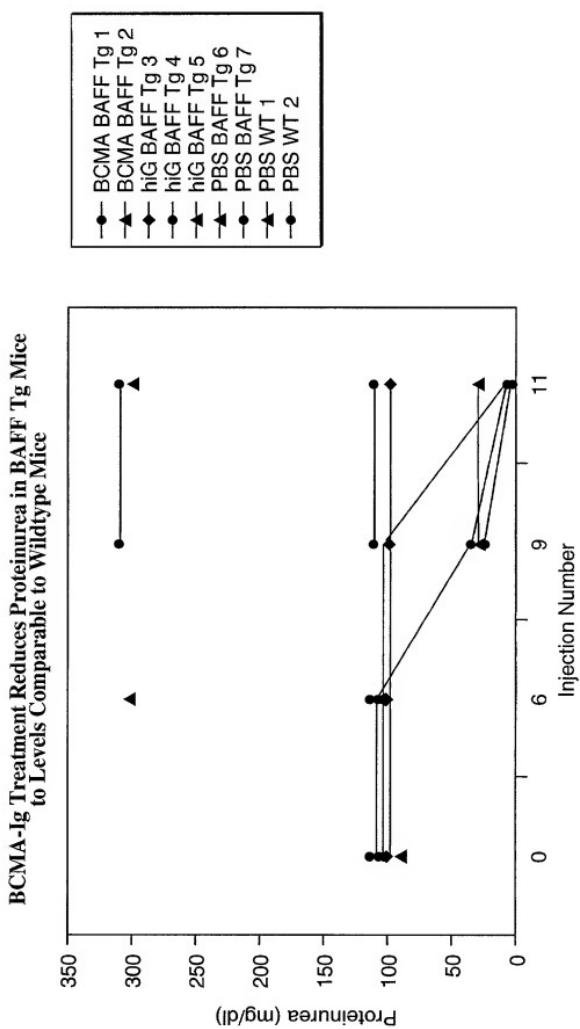


FIG. 12

Average Mean Arterial Pressure in BAFF transgenic  
(BAFF +) and wild-type controls (BAFF -)

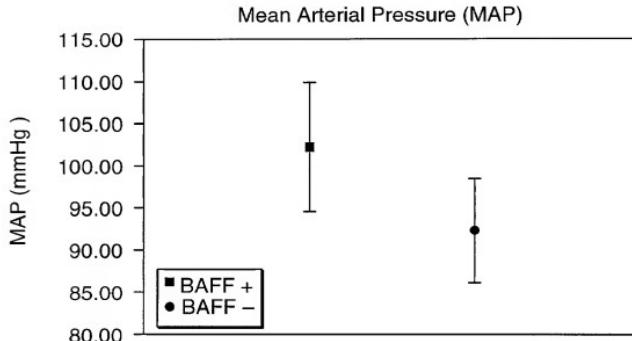


FIG. 13

Individual Mean Arterial Pressure in BAFF transgenic  
(BAFF +) and wild-type controls (BAFF -)

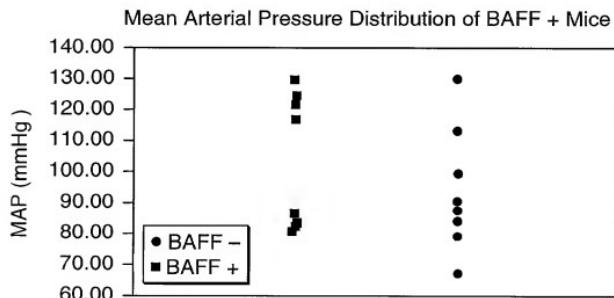
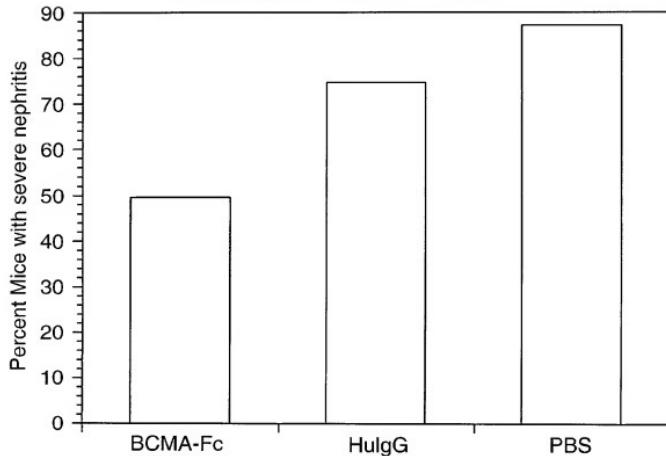
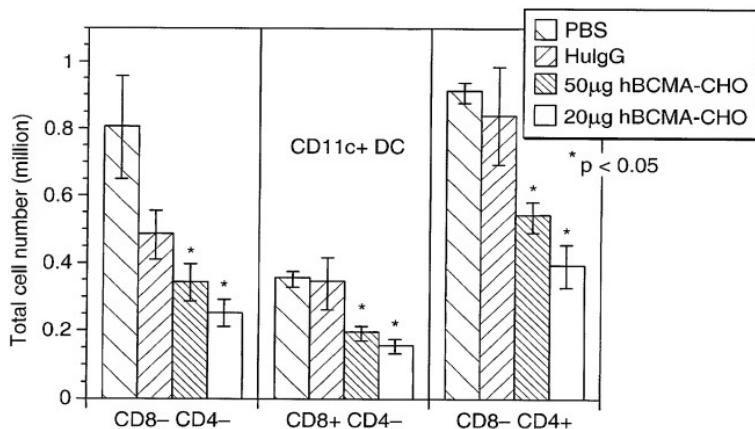


FIG. 14

**BCMA-Ig Treatment of Moderately Nephritic SNF1 Mice  
Slows Progression to Severe Nephritis**



**FIG. 15**



**FIG. 16**